

CLAIMS

1. A high-frequency circuit device including at least two parallel planar conductors and an undesired-wave propagation blocking circuit that is coupled with an undesired wave propagating between the two planar conductors to block the propagation of the undesired wave, wherein

the undesired-wave propagation blocking circuit forms a band eliminate filter including a plurality of stages of resonators and transmission lines each connecting the resonators in the respective stages, the transmission lines are two transmission lines that are in parallel to each other, each resonator in the respective stages has two spiral lines extending in parallel to each other from each root portion of the two spiral lines of the resonator, leading ends of the two spiral lines are connected to each other, each root portion of the two spiral lines of the resonators is connected to a plurality of positions of at least one of the two transmission lines, and each resonator is short-circuited at the root portions of the two spiral lines.

2. The high-frequency circuit device according to Claim 1, wherein the plurality of resonators is connected to the corresponding transmission lines ideally at an interval of $(2n+1)/4$ (n is an integer of 0 or more) of the wavelength of the transmission lines.

3. A transmitting and receiving apparatus, wherein the high-frequency circuit device as set forth in Claim 1 or 2 is provided in a signal propagation section or a signal processing section.